

RUNE
Serial No. 09/638,858

Atty Dkt: 2380-163
Art Unit: 2664

LISTING OF THE CLAIMS:

This following is a listing of pending claims (none of which are amended by this document):

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Previously Presented) A radio access network comprising:
plural radio network controllers including a first radio network controller, the plural radio network controllers being situated to establish one or more overlapping routing areas, each overlapping routing area comprising a cell controlled by the first radio network controller and at least one cell controlled by another of the plural radio network controllers;

wherein, in response to a routing area update procedure initiated by a user equipment unit, as criteria for which other radio network controllers to store addresses for signaling a routing area update request message, the first radio network controller need only store network addresses for:

any of the plural radio network controllers which controls a cell in any overlapping routing area; and

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any of the plural radio network controllers which functions as a serving radio network controller for a connection for which the first radio network controller functions as a drift radio network controller.

8. (Previously Presented) A radio access network of claim 7, further comprising a signaling network connecting the plural radio network controllers, wherein one of the plural radio network controllers is a serving radio network controller which controls a connection between a core network and a user equipment unit, wherein when the user equipment unit moves from a first routing area to a second routing area, the second routing area being an overlapping routing area in which a second radio network controller also controls cells, the first radio network controller sends, in the routing area update request message to a serving radio network controller, both (1) an address of the first radio network controller, and (2) the address of the second radio network controller, thereby enabling the serving radio network controller to page the user equipment unit throughout the overlapping routing area.

9. (Previously Presented) A radio network controller for a radio access telecommunications network which uses, as criteria for which other radio network controllers to store addresses for use in signaling a routing area update request message generated in response to a routing area update procedure initiated by a user equipment unit, only:

those other radio network controllers which control cells in overlapping routing area(s), the overlapping routing area(s) also having at least one cell controlled by the radio network controller; and

those other radio network controllers which function as a serving radio network controller for a connection for which the radio network controller functions as a drift radio network controller

10. (Previously Presented) The apparatus of claim 9, wherein when the radio network controller serves as a drift radio network controller, and wherein when an user equipment unit moves from a first routing area to a second routing area, the second

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routing area being an overlapping routing area, the radio network controller sends, in the routing area update request message to a serving radio network controller, both (1) an address of the radio network controller, and (2) the address of any other radio network controller having cells in the overlapping routing area, thereby enabling the serving radio network controller to page the user equipment unit throughout the overlapping routing area.

11. (Previously Presented) A method of operating a radio access network comprising plural radio network controllers and having one or more overlapping routing areas, each overlapping routing area comprising a cell controlled by a first radio network controller and a cell controlled by another of the plural radio network controllers, the method comprising:

a user equipment unit initiating a routing area update procedure;

in response to initiation of the routing area update procedure, requiring the first radio network controller, as criteria for which other radio network controllers to store addresses for signaling a routing area update request message, only to store network addresses for:

any of the plural radio network controllers which controls a cell in the one or more overlapping routing area;

any of the plural radio network controllers which functions as a serving radio network controller for a connection for which the first radio network controller functions as a drift radio network controller.

12. (Previously Presented) The method of claim 11, wherein one of the plural radio network controllers is a serving radio network controller which controls a connection between a core network and a user equipment unit, wherein when the user equipment unit moves from a first routing area to a second routing area, the second routing area being an overlapping routing area in which a second radio network controller also controls cells, the method further comprising:

the first radio network controller sending, in the routing area update request message to a serving radio network controller, both (1) an address of the first radio network controller, and (2) the address of the second radio network controller, thereby

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enabling the serving radio network controller to page the user equipment unit throughout the overlapping routing area.

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Previously Presented) The apparatus of claim 7, wherein the signaling of the routing area update request message is prompted by a user equipment unit initiating the routing area update procedure.

17. (Previously Presented) The method of claim 9, wherein the signaling of the routing area update request message is prompted by a user equipment unit initiated the routing area update procedure.

18. (Previously Presented) The method of claim 11, wherein the signaling of the routing area update request message is prompted by a user equipment unit initiating the routing area update procedure.